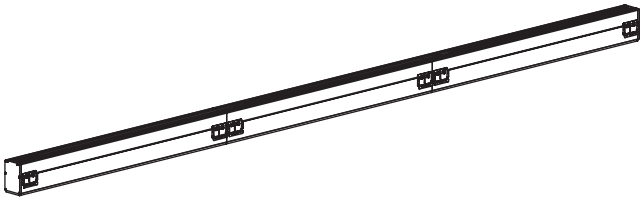
GE
Lighting

Installation Guide

Lumination™ LED Luminaires

(BL Series - Continuous Run Option)



BEFORE YOU BEGIN

Read these instructions completely and carefully.

⚠ WARNING/AVERTISSEMENT	
RISK OF ELECTRIC SHOCK • Turn power off before inspection, installation or removal. • Properly ground electrical enclosure.	**RISK OF FIRE** • Follow all IEC and local codes. • Use only IEC approved wire for input/output connections. Minimum size 14 AWG (0.75mm^2).

Save These Instructions

Use only in the manner intended by the manufacturer. If you have any questions, contact the manufacturer.

Important

- 120-127V 60Hz - maximum 33 meters of luminaires (various unit) can be connected on a single through wiring run.
- 220-240V 50/60Hz - maximum 64 meters of luminaires can be connected on a single through wiring run.
- Please see technical data sheet for electrical properties to ensure safe installation.
- Under any circumstance, maximum driver current through connected fixtures shall not exceed 12 A.

Prepare Electrical Wiring

Electrical Requirements

- The LED driver must be supplied with 120-240 VAC, 50/60 Hz and connected to an individual properly grounded branch circuit. Use min. 600V 75°C supply conductor.

Grounding Instructions

- The grounding and bonding of the overall system shall be done in accordance with IEC and local codes.

Provided in the Package

- Luminaire without end covers
- Universal mounting brackets (4 pieces)
- M3x12mm screws for mounting bracket installation (8 pieces)
- M3 wingnut (8 pieces)
- Ceiling grid screw for grid and bracket fixing (4 pieces)
- M4x16mm screw for bracket to bracket fixing (2 pieces)
- M4 nut for bracket to bracket fixing (2 pieces)
- Primary diffuser
- Optional low glare diffuser with protective foil
- Joiner pins (2 pieces)

Tools and Components Required

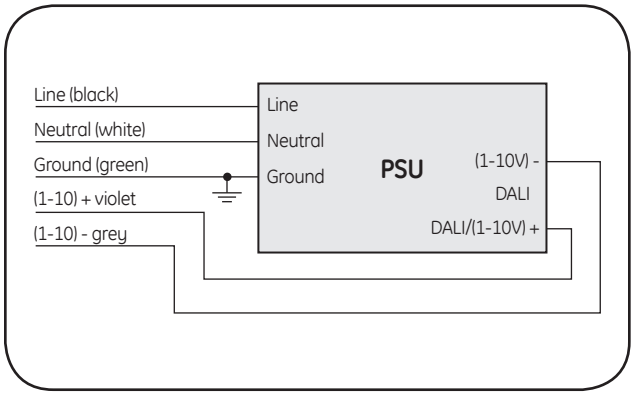
- For end cover install: Philips headed screwdriver
- For bracket to bracket fixing: 7mm wrench or socket
- BL Series 4" Wide End Covers – SKU 85598
- BL Series CE Continuous Leader Cable (1-10V) –SKU 85601
- BL Series CE Continuous Leader Cable (DALI) - SKU 85675

imagination at work

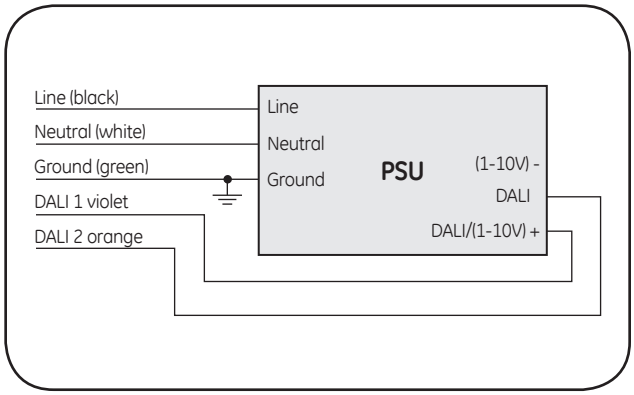
Wiring Diagrams

Optional Installation: 1-10 Volt Dimming or DALI Lighting Controller

Follow diagram A for 0-10 V or diagram B for DALI.

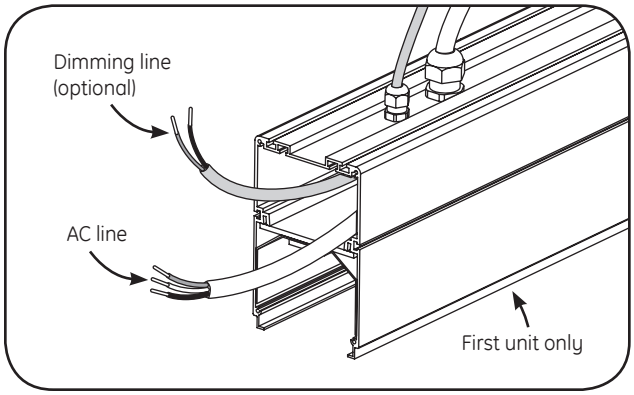


A 1-10V wiring diagram

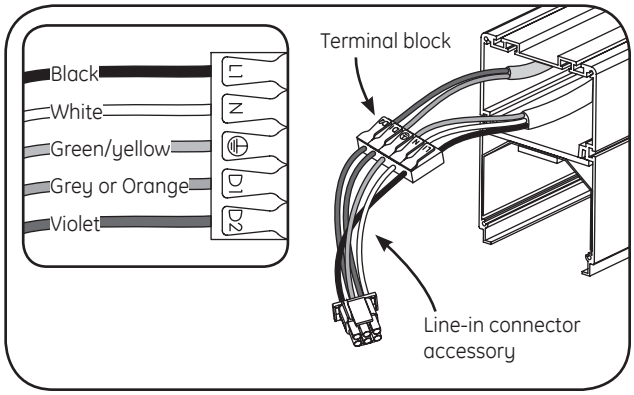


B DALI wiring diagram

Preliminary Electrical Connections

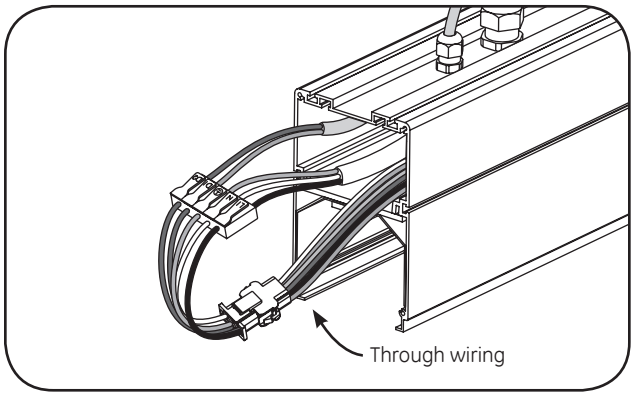


1 Loosen cable gland nuts to insert AC line. Optionally, insert dimming line into smaller cable gland.

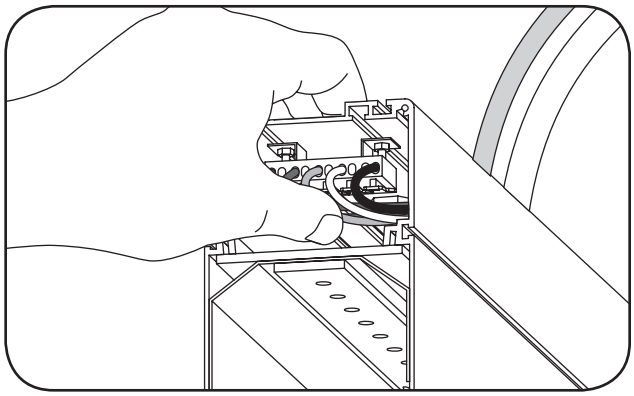


2 Connect the AC line and dimming wires to the terminal block of the line-in connector accessory: Black to L1, White to N, Green/yellow to ground, Grey to D1 and Violet to D2 for 1-10V or Orange to D1 and Violet to D2 for DALI.

Note: Use BL Series CE Continuous Leader Cable (1-10V) SKU 85601 or BL Series CE Continuous Leader Cable (DALI) SKU 85675.



3 Connect the accessory kit to the through wiring. Push wires into fixture.

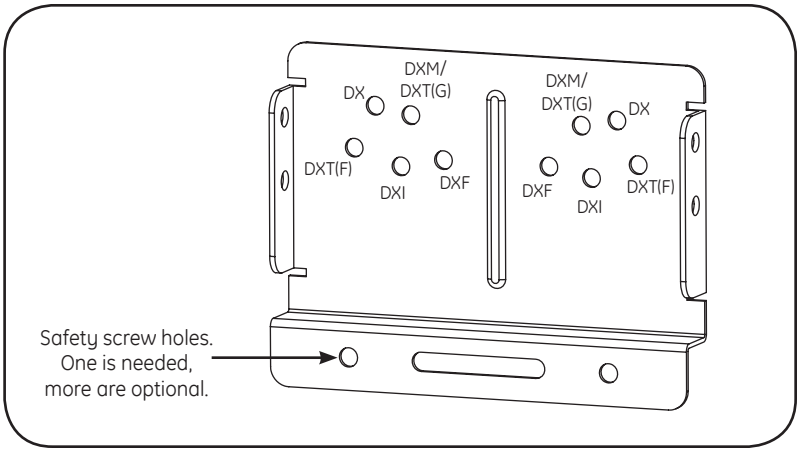


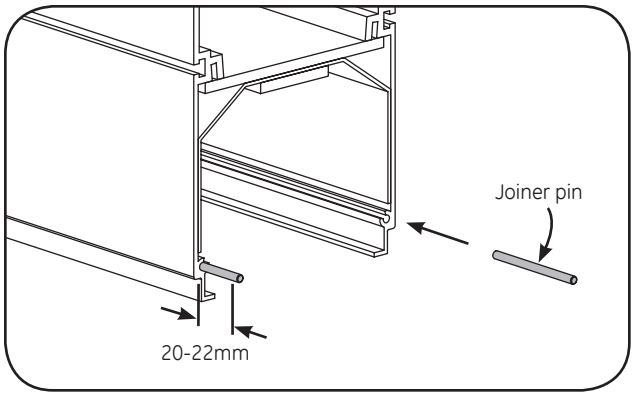
4 Snap in the terminal block to the factory mounted holder. Be careful not to break the wires at a high angle when pushing them inside the housing.

Luminaire Installation

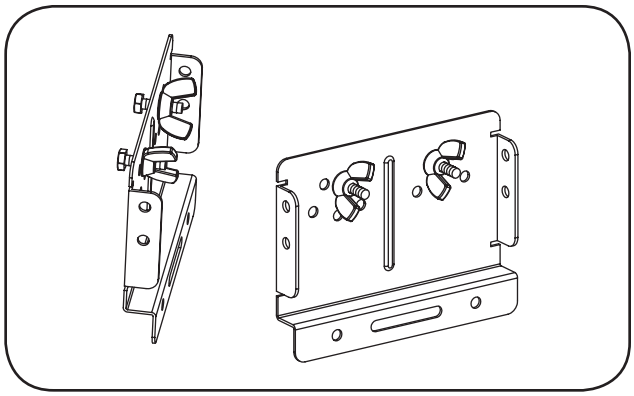
With the supplied universal bracket the product is compatible with the following USG type grids: DX, DXI, DXT, DXF, DXM.

Reference diagram (right) to determine which hole to use for a given grid.

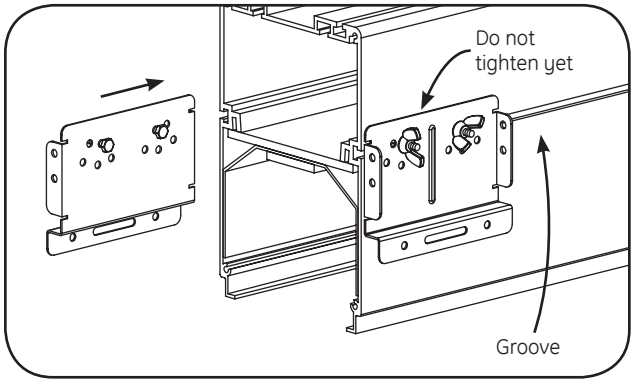




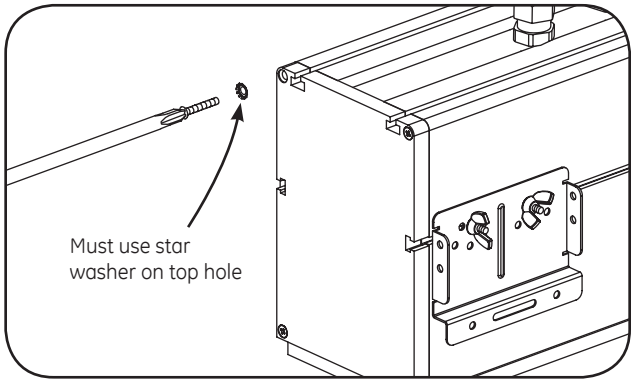
1 For the luminaires that will be in the middle of the run, insert two pins into ***one end only***. Slide pins into the bottom screw grooves, leaving approximately 20-22mm exposed.



2 Pre-install the two M3x12 mm screws with the wingnuts into bracket. The screws should be in the same hole type.

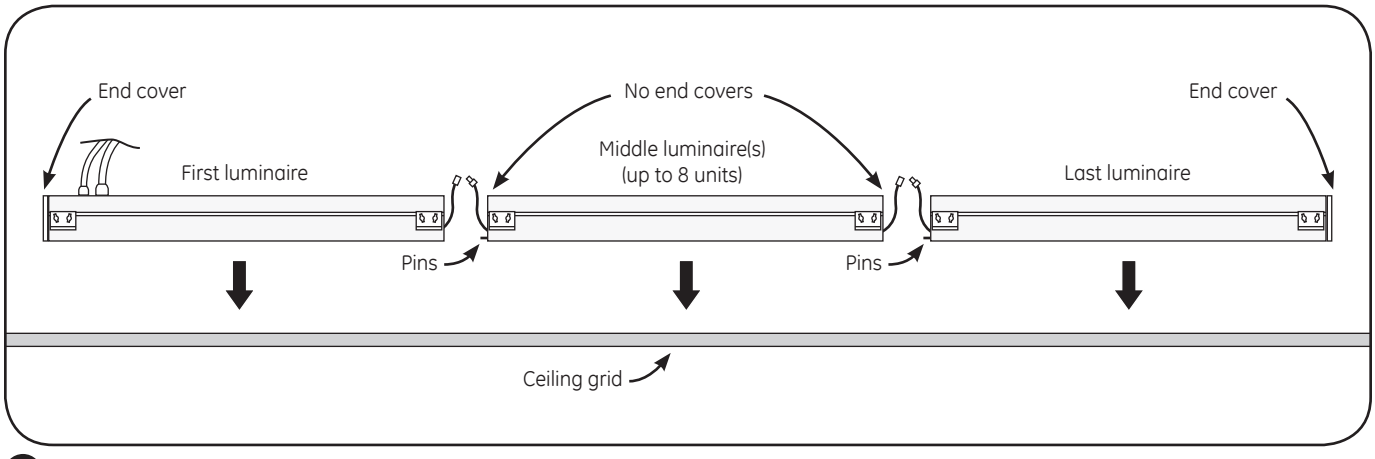


3 Insert four mounting brackets (two at each end) into grooves on both sides of luminaire. Position brackets approximately 2-3mm from ends. Do not tighten wingnuts yet.

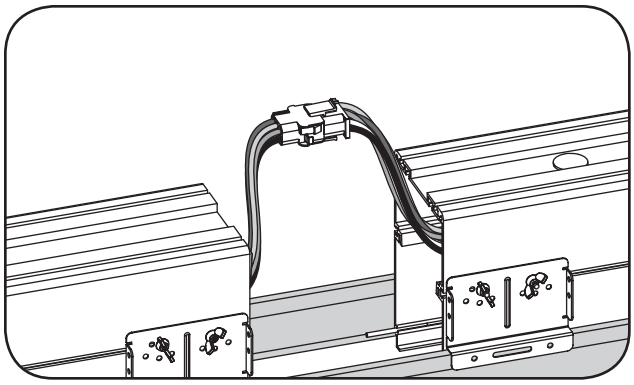


4 Fasten one end cover on the ***first*** and ***last*** luminaires only with four M3 screws. Always use a star washer under one of the top screws to ensure ground continuity.

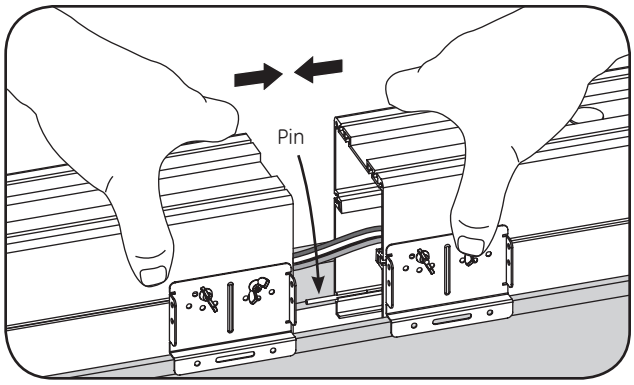
Note: The luminaires between the opening and closing units do not require end covers.



5 Place luminaires into ceiling grid.

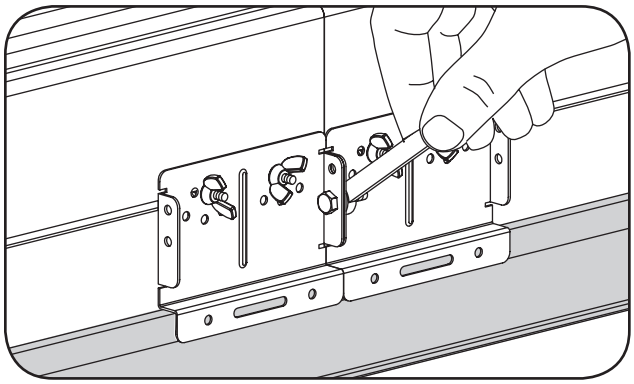


6 Plug together wires between luminaires.

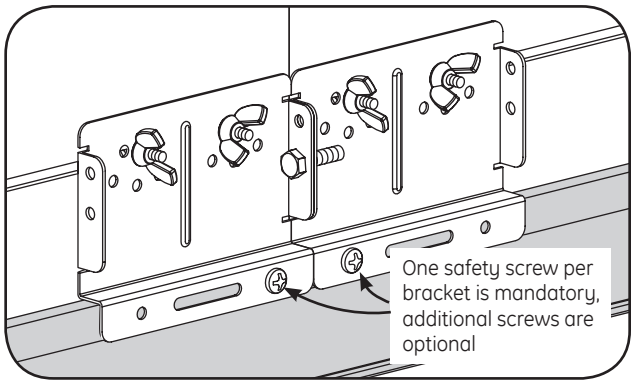


7 Carefully align pins of one luminaire with grooves of next luminaire, then push them completely together, taking care not to pinch wires.

Note: A rubber mallet may be required to complete this step. Hammer the luminaires only on the top edge, not the bottom.



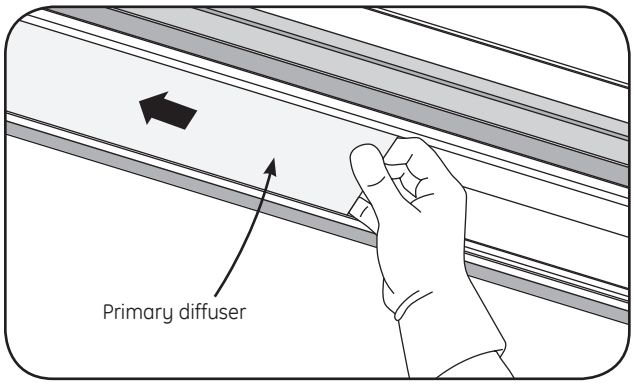
8 Join mounting brackets together with M4 hex head screw and nut. Also tighten wingnuts.



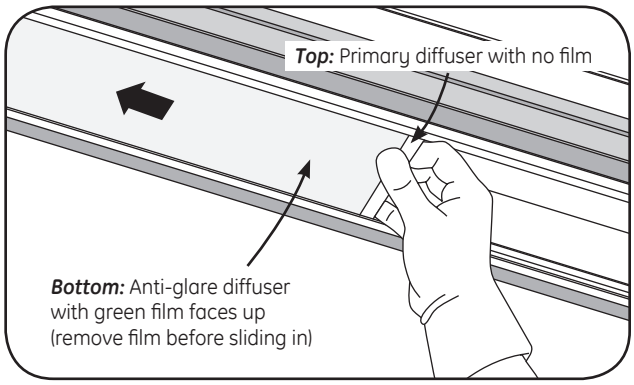
9 For added safety, use additional ceiling grid screws to permanently fix brackets to grid.

⚠WARNING
Risk of Injury. Improper mounting bracket installation may cause injury or property damage.

Diffuser Installation

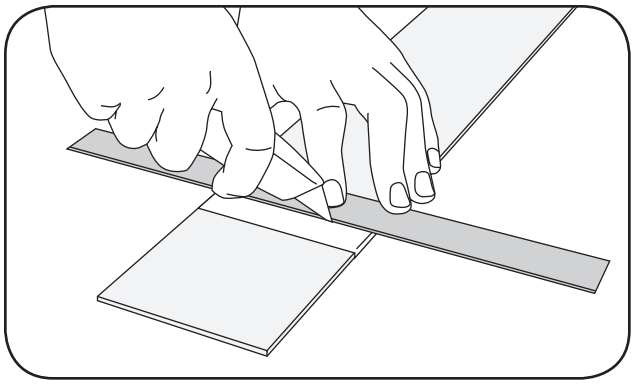


OR

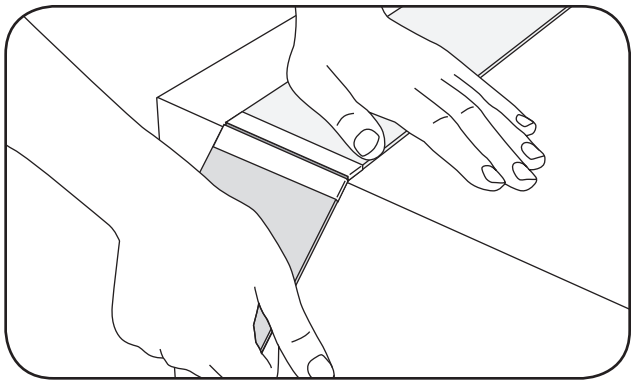


1A ***Option A - one diffuser (primary):*** Tilt and slide diffusers into base of luminaires. The last diffuser will need to be trimmed (see Step 2).

1B ***Option B - two diffusers (primary and anti-glare):*** Tilt and slide both diffusers into base of luminaires, making sure the diffuser with the green protective film is placed on the bottom (remove film first). The last diffusers will need to be trimmed (see Step 2).



2 Place diffuser to be trimmed on a clean surface. Apply masking tape over cutting area. Score plastic with utility knife to about 50% of plastic thickness.



3 Position score over table edge and carefully snap off end. Remove tape, file edge, and clean. Install diffuser as instructed in Step 1.

Troubleshooting

Symptom	Solution
Luminaire does not light	• Check input voltage and check power supply input/output connections. • Check circuit breaker.
Luminaire is dim	• Dimming wire connection shall be checked and if connection is not proper, reconnect it. If wire is harmed, replace it with an intact one. Also check that dimming wires are not in short circuit.
Luminaire is blinking	• Ensure power supply temperature does not exceed its maximum rating. • Refer to the tc point located on power supply.
Luminaire does not dim	• Check dimming wire connection.
Luminaires will not turn on	• Check that the color of the supply side wires match the color of the wires they are connected to. • Check that the LED driver connector is fully engaged to the LED light engine connector. • Check that the LED light engines are connected at the junction between the two luminaires.
Luminaire on through wiring will not turn on	• Check that the through wiring connector from the previous fixture in the linear row is fully engaged to the malfunctioning luminaire.

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